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For: IMAGE SYSTEM Dated: November 29, 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Sir:

In connection with the filing of the above-identified application, kindly enter the following preliminary amendments.

Amendments to the specification begin on page 2 of this paper.

Amendments to the claims are reflected in the listing of claims, which begins on page 3 of this paper.

Remarks/arguments begin on page 9 of this paper.

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Paul J. Esatto, Jr.

Dated: November 29, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

IN THE CLAIMS:

- 1. (Currently amended) An image description system comprising:
- a feature extracting unit extracting \underline{color} layout features from respective of frames of an image sequence; and
- a representative feature calculating unit calculating a representative <u>color</u> layout feature representative of said image sequence from a group of said layout features <u>of all frames</u> extracted by said feature extracting unit.
- 2. (Currently amended) An image description system comprising:
- a feature extracting unit extracting \underline{color} layout features from respective of frames of an image sequence;
- a representative feature calculating unit calculating a representative <u>color</u> layout feature representative of said image sequence from a group of said <u>color</u> layout features extracted by said feature extracting unit; and
- a representative layout feature storage unit storing said representative <u>color</u> layout feature calculated by said representative feature calculating unit.
- 3. (Currently amended) An image description system comprising:
- a feature extracting unit extracting <u>color</u> layout features from respective of frames of an image sequence;
- a representative feature calculating unit calculating a representative <u>color</u> layout feature representative of said image sequence from a group of said <u>color</u> layout features extracted by said feature extracting unit;

- a representative layout feature storage unit storing said representative <u>color</u> layout feature calculated by said representative feature calculating unit; and
- a layout feature group storage unit storing said group of <u>color</u> layout features calculated by said feature extracting unit,
- (Currently amended) The image description system according to any-one of claims 1 to 3 claim 1,
 wherein said representative feature calculating unit calculates average values of
 respective elements of a color layout feature extracted by said feature extracting unit as a said
 representative color layout feature.
- 5. (Currently amended) The image description system according to any one of claims 1 to 3 claim 1, wherein said representative feature calculating unit rearranges values of respective elements of a color layout feature extracted by said feature extracting unit in any of ascending order and descending order, and calculates a median as a said representative color layout feature.
- 6. (Canceled)
- 7. (Canceled)
- 8. (Canceled)
- 9. (Currently amended) An image description software product executable on a computer realizing comprising:
- computer readable code configured to cause said computer to extract a feature extracting function for extracting color layout features from respective of frames of an image sequence; and

computer readable code configured to cause said computer to calculate a representative feature calculating function for calculating a color layout feature representative of said image sequence from a group of said color layout features extracted by said feature extracting function.

10. (Currently amended) An image description method comprising:

a feature extracting step for extracting <u>color</u> layout features from respective of frames of an image sequence; and

a-representative feature calculating step for calculating a <u>color</u> layout feature representative of said <u>image</u> sequence from a group of said <u>color</u> layout features extracted in said feature extracting step.

(Currently amended) An image identification system comprising:

a representative layout feature storage unit storing a $\underline{\text{color}}$ layout feature representative of an image sequence as a representative $\underline{\text{color}}$ layout feature; and

an image sequence selecting unit selecting an image sequence which resembles a query image sequence by comparing said representative <u>color</u> layout feature of said query image sequence stored in said representative layout feature storage unit with said representative <u>color</u> layout feature of a registered image sequence stored in said representative layout feature storage unit.

(Currently amended) An image identification system comprising:

a representative layout feature storage unit storing a <u>color</u> layout feature representative of an image sequence as a representative <u>color</u> layout feature;

a feature extracting unit extracting <u>color</u> layout features from respective of frames of a query image sequence;

a representative feature calculating unit calculating a representative <u>color</u> layout feature representative of said query image sequence from a group of said <u>color</u> layout features extracted by said feature extracting unit; and

an image sequence selecting unit selecting a sequence which resembles said query image sequence by comparing said representative <u>color</u> layout feature calculated by said representative feature calculating unit with said representative <u>color</u> layout feature stored in said representative layout feature storage unit.

13. (Currently amended) An image identification system comprising:

- a representative layout feature storage unit storing a <u>color</u> layout feature representative of an image sequence as a representative color layout feature;
- a layout feature group storage unit storing <u>color</u> layout features associated with respective of frames of said image sequence;
- a feature extracting unit extracting <u>color</u> layout features from respective of frames of a query image sequence;
- a representative feature calculating unit calculating a representative <u>color</u> layout feature representative of said query image sequence from a group of said <u>color</u> layout features extracted by said feature extracting unit;
- an image sequence selecting unit selecting an image sequence which resembles said query image sequence by comparing said representative <u>color</u> layout feature calculated by said representative feature calculating unit with said representative <u>color</u> layout feature stored in said representative layout feature storage unit; and
- an identification unit matching said group of <u>color</u> layout features extracted by said layout feature extracting unit against said <u>color</u> layout features stored in said layout feature group storage unit as to said image sequence selected by said image sequence selecting unit.
- 14. (Currently amended) The image identification system according to claim 12 or 13,

wherein said representative feature calculating unit calculates average values of respective elements of a <u>color</u> layout feature extracted by said feature extracting unit as a <u>said</u> representative <u>color layout</u> feature.

15. (Currently amended) The image identification system according to claim 12 or 13,

wherein said representative feature calculating unit rearranges values of respective elements of a <u>color</u> layout feature extracted by said feature extracting unit in any of ascending order or descending order, and calculates a median as a <u>said</u> representative <u>color layout</u> feature.

- 16. (Canceled)
- 17. (Canceled)
- 18. (Canceled)
- 19. (Currently amended) An image identification software product executable on a computer realizing comprising:

computer readable code configured to cause said computer to store a storage function for storing a color layout feature representative of an image sequence as a representative color layout feature in a storage function unit of said computer; and

computer readable code configured to cause said computer to select a selection function for selecting an image sequence which resembles a query image sequence by comparing said representative color layout feature of said query image sequence stored by in said storage function unit with said representative color layout feature of a registered image sequence stored by in said storage function unit.

20. (Currently amended) An image identification method comprising:

a storing step-for storing a color layout feature representative of an image sequence as a representative color layout feature; and an image sequence selecting step for selecting an image sequence which resembles a query image sequence by comparing said representative <u>color</u> layout feature of said query image sequence stored in said storing step with said representative <u>color</u> layout feature of a registered image sequence stored in said storing step.

21. (Canceled)

22. (New) The image identification system according to claim 13, wherein said representative feature calculating unit calculates average values of respective elements of a color layout feature extracted by said feature extracting unit as said representative color layout feature.

23. (New) The image identification system according to claim 13,

wherein said representative feature calculating unit rearranges values of respective elements of a color layout feature extracted by said feature extracting unit in any of ascending order or descending order, and calculates a median as said representative color layout feature.

REMARKS/ARGUMENTS

The amendments to the claims are being made to more clearly define the subject invention and place the claims in better condition for U.S. prosecution. It is respectfully submitted that no new matter is being added.

It is respectfully requested that the above amendments be entered before an action on the merits is issued.

Respectfully submitted,

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